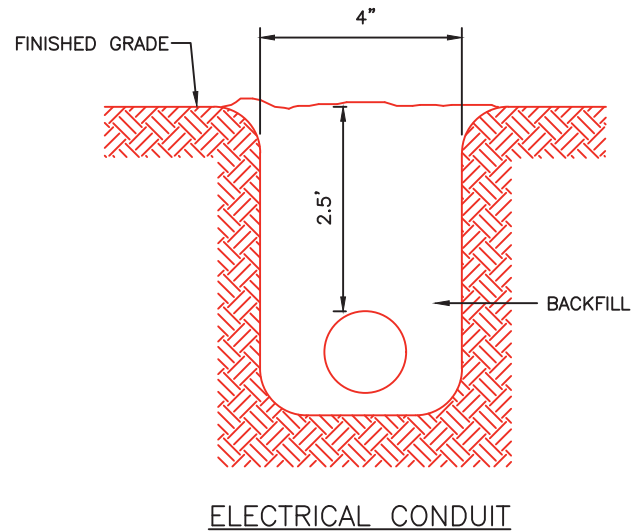
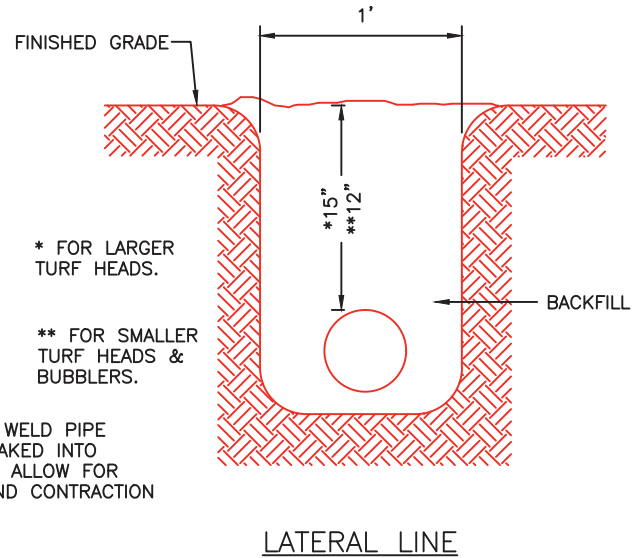
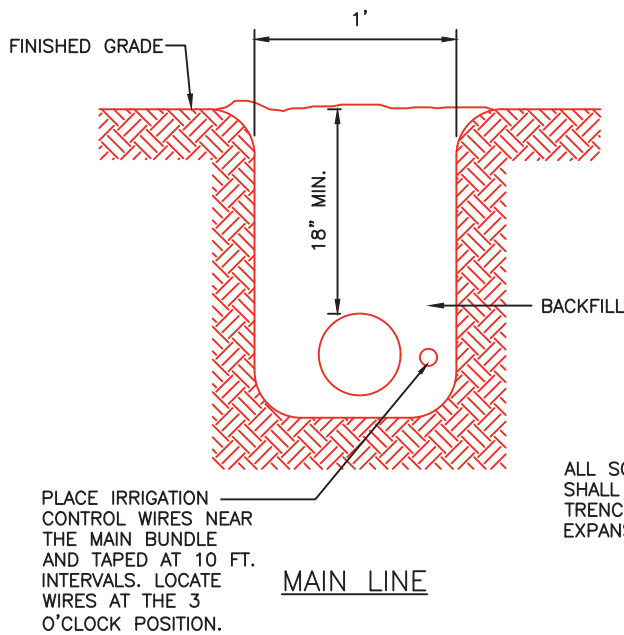


LANDSCAPE AND IRRIGATION LEGENDS

CITY OF REEDLEY

L-1

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NOTES:

1. ALL ELECTRICAL WIRING AND WATER LINES SHALL BE INSTALLED 2.5 FT. DEEP IN A SCHEDULE 40 PVC CONDUIT WHEN CROSSING ROADWAYS OR UNDER ANY HARD SURFACE.
2. IF MORE THAN ONE LINE IS INSTALLED PER TRENCH, PROVIDE 0.5 FT. HORIZONTAL AND VERTICAL SEPARATION.
3. ALL PVC SOLVENT (GLUE) SHALL BE #711 (PRIMER IS REQUIRED ON MAIN LINE ONLY).
4. LANDSCAPE AND IRRIGATION IMPROVEMENTS WITHIN THE DEDICATED STREET RIGHT-OF-WAY MAY REQUIRE AN ENCROACHMENT PERMIT. CHECK WITH PUBLIC WORKS DEPARTMENT FOR REQUIREMENTS.
5. WHERE OPEN STREET CUTS ARE REQUIRED TO INSTALL VARIOUS IRRIGATION AND/OR WIRES, ALL BACKFILL, COMPACTING AND FINAL SURFACE PATCH WITHIN THE CITY RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH CITY STANDARD ST-46 OR AS DIRECTED BY THE CITY ENGINEER.
6. WHEN THERE IS A CHANGE IN FITTED DIRECTION, ALL IRRIGATION MAIN LINES LARGER THAN 2" IN DIAMETER (PRESSURE LINES) SHALL BE SECURED WITH THRUST BLOCKS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION, CITY STD. W-7 AND AS DIRECTED BY THE CITY ENGINEER.
7. ALL IRRIGATION LATERAL LINES SHALL BE SCHEDULE 40 PVC.
8. ALL IRRIGATION MAIN LINES 2" IN DIAMETER AND LESS SHALL BE SCHEDULE 40 PVC. IRRIGATION MAIN LINES GREATER THAN 2" IN DIAMETER SHALL BE PVC SCHEDULE 40 OR APPROVED EQUAL BY THE CITY ENGINEER.
9. ANY AND ALL CHANGES SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.
10. ALL IRRIGATION INSTALLATION SHALL BE IN ACCORDANCE WITH CITY STANDARDS, THE LATEST APPROVED EDITION OF THE UNIFORM PLUMBING CODE, MANUFACTURE'S RECOMMENDATIONS AND AS DIRECTED BY THE CITY ENGINEER.
11. ALL MATERIAL USED SHALL BE NEW AND FREE FROM IMPERFECTIONS.
12. SEE APPROVED LANDSCAPE AND IRRIGATION PLANS AND LEGENDS FOR SPECIFIC MODEL NUMBER, SIZE, QUANTITY, MANUFACTURER, AND PERFORMANCE REQUIREMENTS.



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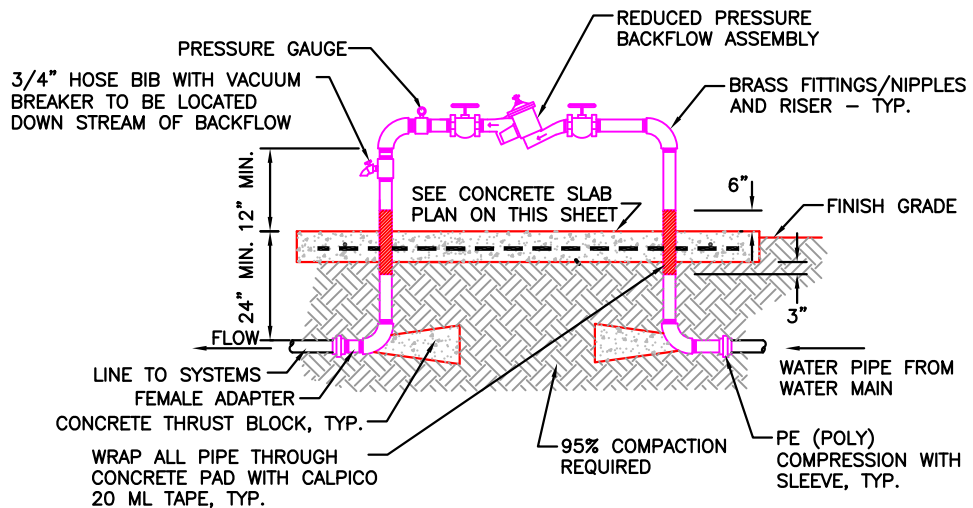
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ST-46 & W-7

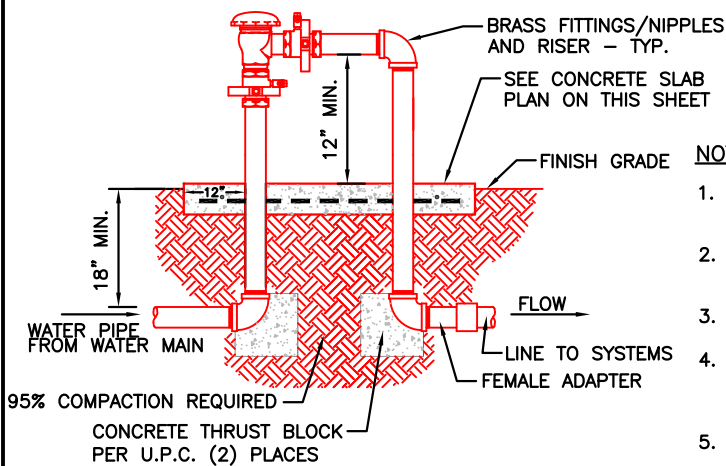
CONDUIT AND IRRIGATION PIPING, TRENCHING & BACKFILL

CITY OF REEDLEY

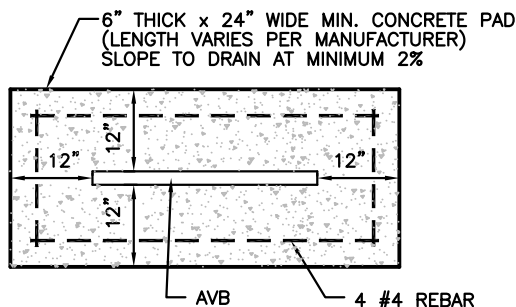
L-2



BACKFLOW PREVENTER
TO BE USED FOR CONSTRUCTION WATER ALSO



PRESSURE VACUUM BREAKER



CONCRETE SLAB PLAN
REQUIRED ON ALL ASSEMBLIES

NOTES:

1. EXCEPT AS NOTED, ALL PIPING AND FITTINGS SHALL BE BRASS UNLESS APPROVED BY THE CITY ENGINEER.
2. USE TEFLON TAPE ON ALL THREADED JOINTS OR APPROVED EQUAL BY THE CITY ENGINEER.
3. ALL MATERIALS SHALL BE NEW AND FREE FROM IMPERFECTIONS.
4. FOR LESS THAN A 2" LANDSCAPE SERVICE, IF WATER PRESSURE IS NOT AVAILABLE A FEBCO 766 PRESSURE VACUUM BREAKER MAY BE UTILIZED WITH APPROVAL BY THE CITY ENGINEER.
5. SEE APPROVED LANDSCAPE AND IRRIGATION PLANS AND LEGENDS FOR SPECIFIC MODEL NUMBERS, SIZES, QUANTITY, MANUFACTURER'S, AND PERFORMANCE REQUIREMENTS.
6. ALL TRANSITIONS FROM BRASS PIPE TO PVC SHALL BE CONSTRUCTED WITH SCHEDULE 80 FEMALE ADAPTER OR APPROVED EQUAL BY THE CITY ENGINEER.
7. A 6" THICK CONCRETE (4000 PSI) SLAB IS REQUIRED FOR ALL WATER PROTECTION DEVICES. 4 #4 REBAR REINFORCEMENT REQUIRED. MINIMUM CLEARANCE SHALL BE 1 FT. ON ALL SIDES OF THE DEVICE AND AS DIRECTED BY THE CITY ENGINEER.
8. ALL IRRIGATION INSTALLATION SHALL BE IN ACCORDANCE WITH CITY STANDARDS, THE LATEST ACCEPTED EDITION ON THE UNIFORM PLUMBING CODE, MANUFACTURE'S RECOMMENDATION, AND AS DIRECTED BY THE CITY ENGINEER.
9. ANY AND ALL CHANGES SHALL BE APPROVED BY THE CITY ENGINEER BEFORE CONSTRUCTION.
10. BEFORE ACCEPTANCE OF WORK BY THE CITY, THE BACKFLOW PREVENTER SHALL BE TESTED AND CERTIFIED BY A LICENSED BACKFLOW PLUMBER. CERTIFICATION SHALL BE DELIVERED TO THE CITY ENGINEER.
11. INSTALL BACKFLOW ENCLOSURE PER CITY STANDARD DRAWING L-4.



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L-4

**POTABLE WATER
PROTECTION**

CITY OF REEDLEY

L-3



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L-3

BACKFLOW PREVENTER ENCLOSURE

CITY OF REEDLEY

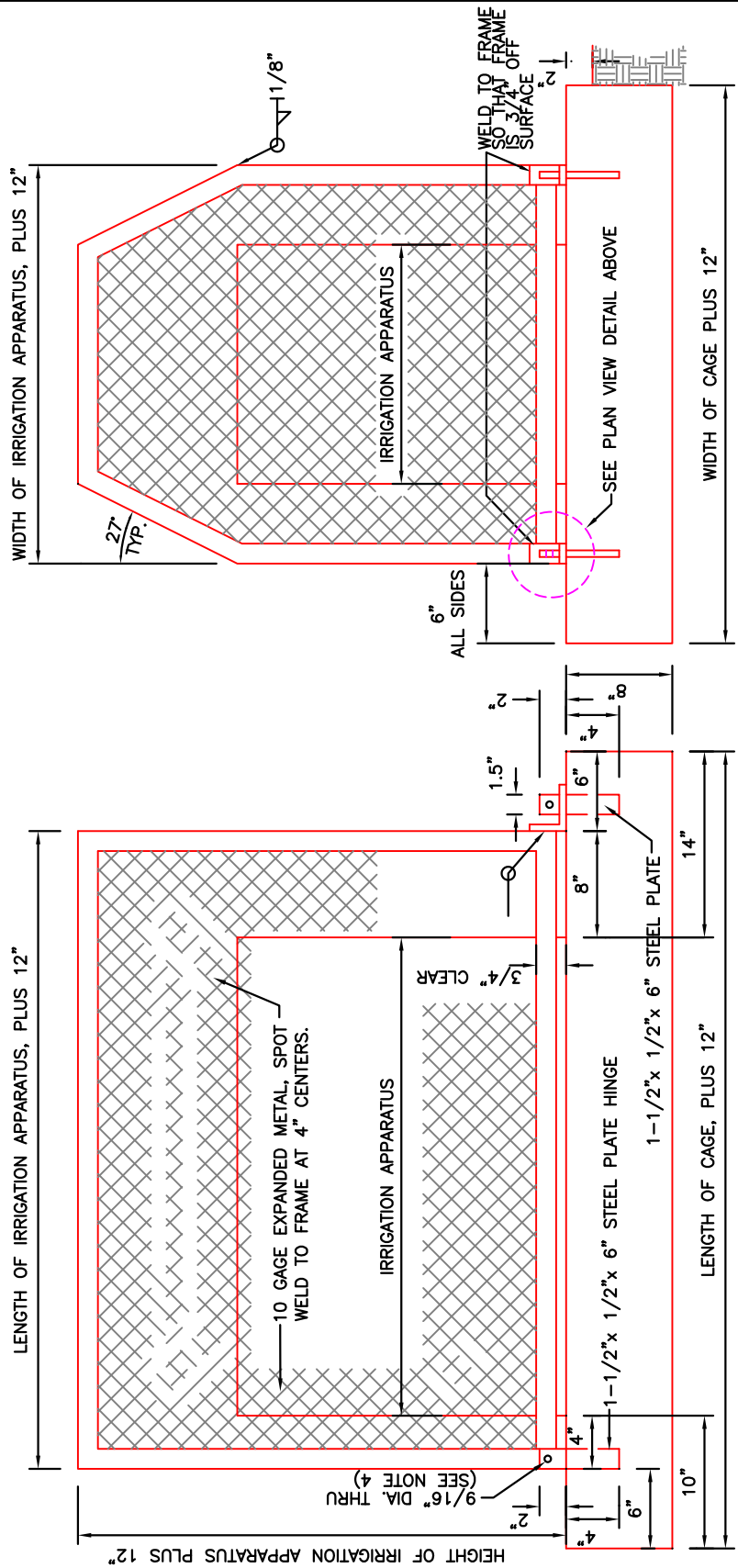
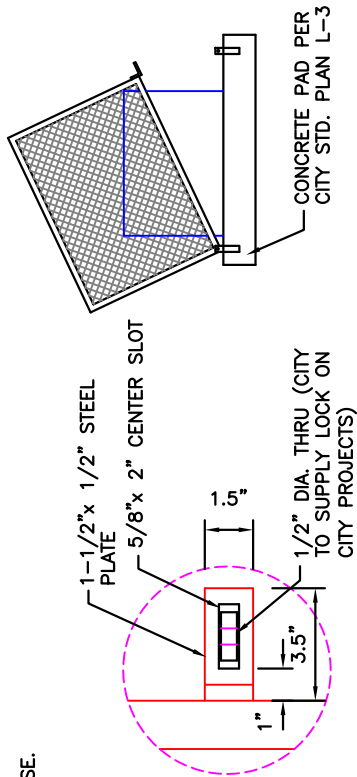
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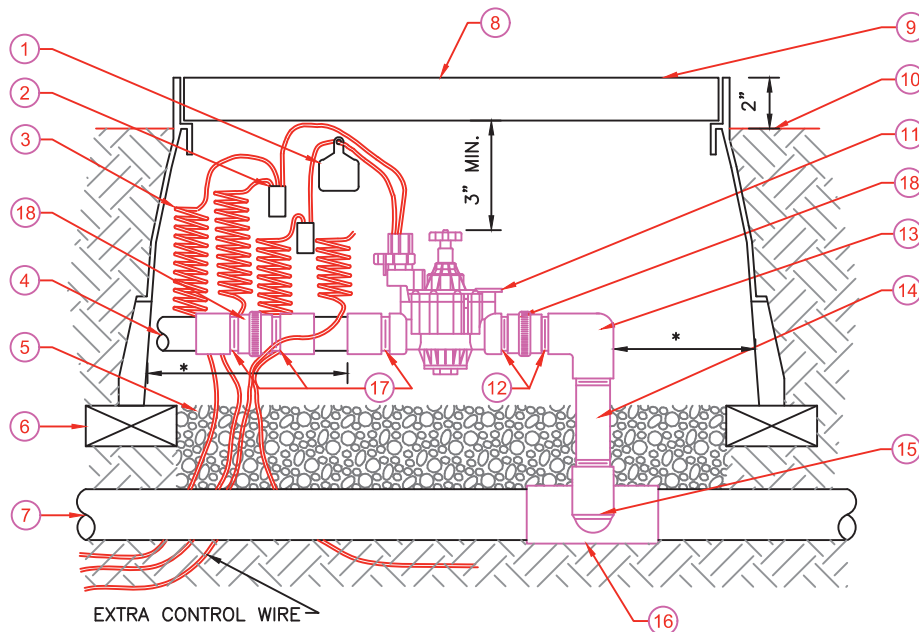
NOTES:

1. PAINT ALL METAL SURFACES WITH 2 COATS DARK GREEN ENAMEL OVER A PRIMER BASE.
2. FRAME CONSTRUCTED OF 1 1/2" BY 1 1/2" ANGLE IRON.
3. CONCRETE SHALL BE CLASS "B" (5 SACK).
4. 1/2"x 2" HEX CAP SCREW, GRADE 2 WITH 2 NUTS EACH.
5. PREFABRICATED SINGLE-LIFT OR DOUBLE-LIFT BACKFLOW ENCLOSURES AVAILABLE FROM NATIONAL WATERWORKS, 2651 E. BYRD AVE., #101, FRESNO, CA 93706 PHONE 559-237-7488, FAX 559-237-6423, SEE TABLES BELOW FOR SIZING.
6. A BACKFLOW PREVENTER FREEZE PROTECTION COVER SHALL BE INSTALLED OVER THE BACKFLOW PREVENTER.

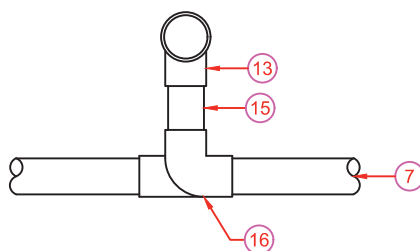
SIZING FOR SINGLE-LIFT ENCLOSURES					SIZING FOR DOUBLE-LIFT ENCLOSURES				
VALVE SIZE	PART #	WIDTH	LENGTH	HEIGHT	VALVE SIZE	PART #	WIDTH	LENGTH	HEIGHT
1"	BFE-100	12"	30"	24"	2-1/2"	BFE-250	24"	60"	36"
1-1/2"	BFE-200	18"	42"	30"	3"	BFE-400	30"	72"	42"
2"	BFE-200	18"	42"	30"	4"	BFE-400	30"	72"	42"
					6"	BFE-600	30"	84"	42"

PLAN VIEW DETAIL





REMOTE CONTROL VALVE – GLOBE



PLAN VIEW

- 1 INTERNAL IDENTIFICATION TAG
- 2 WATERPROOF CONNECTION (1 OF 2)
- 3 30" OF COILED WIRE
- 4 PVC LATERAL PIPE
- 5 3" Min. DEPTH OF 3/4" GRAVEL (WASHED)
- 6 BRICK SUPPORT (1 OF 4)
- 7 PVC MAINLINE PIPE
- 8 VALVE BOX IDENTIFICATION TAG (ENGRAVED)
- 9 PLASTIC VALVE BOX (SEE NOTE 3 BELOW)
- 10 FG
- 11 REMOTE CONTROL VALVE
- 12 PVC SCH.80 NIPPLE (CLOSE)
- 13 PVC SCH.40 ELL
- 14 PVC SCH.80 NIPPLE (LENGTH AS REQUIRED)
- 15 SCH.80 NIPPLE (2" LENGTH) & SCH.40 ELL
- 16 PVC SCH.40 TEE OR ELL
- 17 PVC SCH.40 MALE ADAPTER
- 18 PVC UNION

* 5 X THE DIAMETER OF THE PIPE

CONTROL WIRING SHALL BE DIRECT BURIAL AWG-UF TYPE;
"HOT" WIRE NOT SMALLER THAN AWG NO. 14;
COMMON WIRE NOT SMALLER THAN AWG NO. 12.

CONTROL WIRE SIZE

NOTES:

1. USE TEFLON TAPE ON ALL THREADED JOINTS OR APPROVED EQUAL BY CITY ENGINEER.
2. ALL NIPPLES SHALL BE SCHEDULE 80 PVC. ALL FITTINGS SHALL BE SCHEDULE 40 PVC.
3. ALL IRRIGATION CONTROL VALVES SHALL BE PLACED IN A PLASTIC IRRIGATION CONTROL VALVE BOX WITH TOP OF VALVE BOX EVEN WITH FINISHED GRADE IN TURF AND 2-INCHES ABOVE FINISHED GRADE IN PLANTER AREA. THE FOLLOWING PLASTIC VALVE BOX AND LID ARE DEEMED ACCEPTABLE. ANY DEVIATION FROM THE ACCEPTED BOX AND LID BELOW MUST BE APPROVED BY THE CITY ENGINEER.
CHRISTY FL9T FIBRELYTE LID
FL9 FIBRELYTE BOX
4. INSTALLATION OF EXTRA IRRIGATION CONTROL WIRE FROM IRRIGATION CONTROL CLOCK TO REMOVE CONTROL VALVE IS REQUIRED FOR EACH MANIFOLD (BUNDLE OF VALVES). EXTRA WIRE SHALL BE A DIFFERENT COLOR THAN THE ONE USED TO OPERATE VALVES.
5. ALL IRRIGATION CONTROL WIRES (CONTROL AND COMMON) SHALL BE U.L. SINGLE STRAND COPPER WIRE, TAPED AND BUNDLED AT 10 FT. INTERVALS AND PLACED NEAR THE IRRIGATION MAINLINE AT 3 O'CLOCK POSITION.
6. ALL WIRE CONNECTIONS SHALL BE WATERPROOF AND APPROVED BY THE CITY ENGINEER. SPLICES WILL NOT BE ALLOWED UNLESS APPROVED BY THE CITY ENGINEER. THE APPROVED SPLICES WILL REQUIRE THE USE OF A SPLICE BOX.
7. MAINTAIN 2 FT. SEPARATION BETWEEN REMOTE CONTROL VALVES (CENTERLINE TO CENTERLINE) WHEN MORE THAN ONE VALVE IS INSTALLED IN THE SAME LOCATION.
8. WHERE POSSIBLE, LOCATE VALVES IN THE PLANTER AREAS.
9. ALL IRRIGATION INSTALLATIONS SHALL BE IN ACCORDANCE WITH CITY STANDARDS, THE LATEST APPROVED EDITION OF THE UNIFORM PLUMBING CODE, MANUFACTURER'S RECOMMENDATIONS, AND AS DIRECTED BY THE CITY ENGINEER.
10. ALL MATERIALS USED SHALL BE NEW AND FREE FROM DEFECTS.
11. ANY AND ALL CHANGES SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.
12. SEE APPROVED LANDSCAPE PLANS AND LEGENDS FOR SPECIFIC MODEL NUMBERS, SIZE, QUANTITY, MANUFACTURER'S AND PERFORMANCE REQUIREMENTS.



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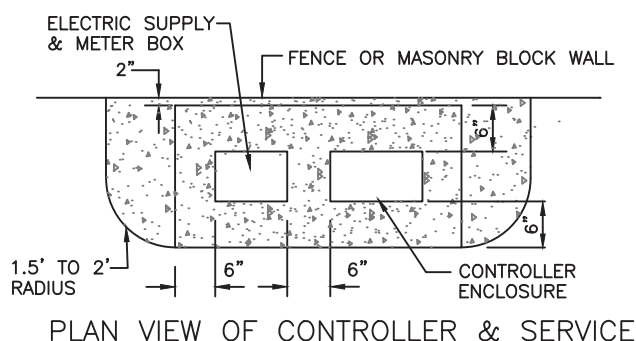
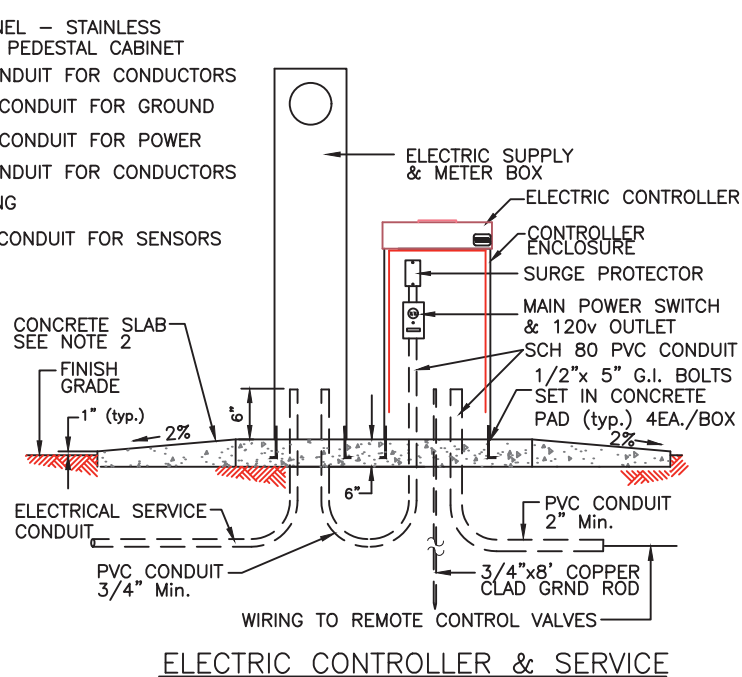
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MAR. 2020

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REMOTE CONTROL VALVE

CITY OF REEDLEY

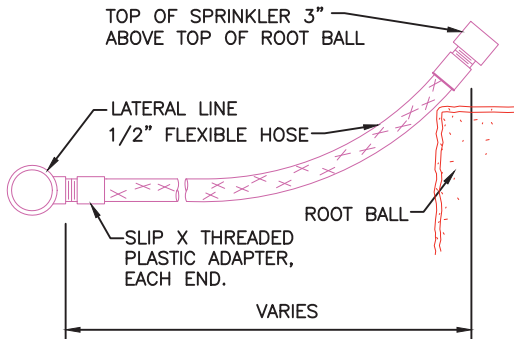
L-5



7. TORO SENTINEL STAINLESS STEEL WALL MOUNTED CABINET
MAY BE INSTALLED WITH CITY ENGINEER APPROVAL.



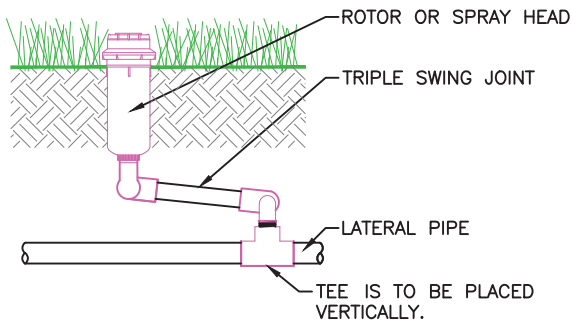
NOTE:
NO NATIVE SOIL ON TOP OF ROOT BALL



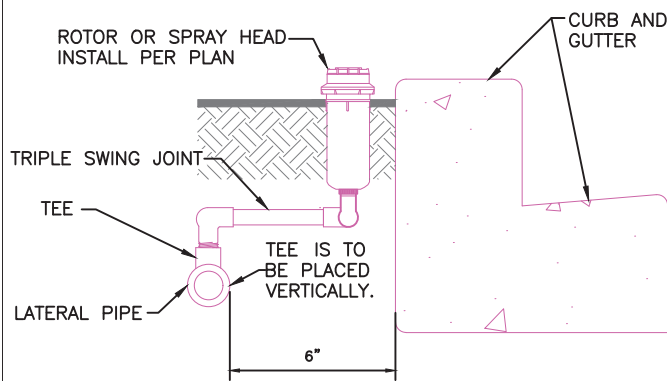
SHRUB BUBBLER

NOTES:

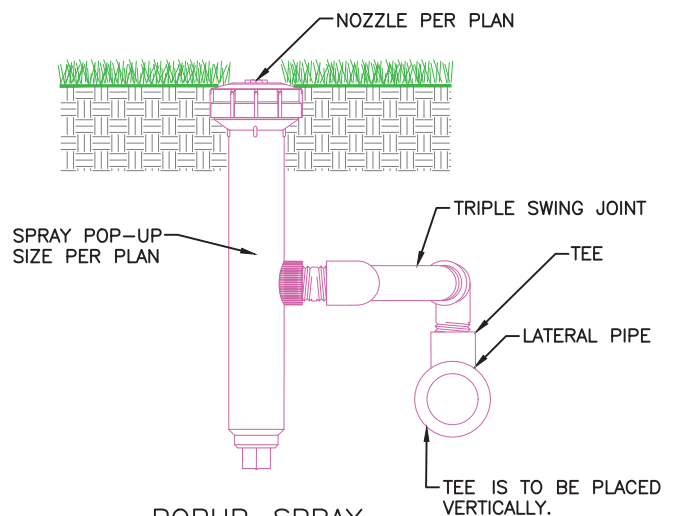
1. INSTALL SPRINKLER HEAD FLUSH OR SLIGHTLY ABOVE FINISH GRADE IN TURF AREAS.
2. INSTALL SPRINKLER HEAD 2" ABOVE FINISH GRADE IN SHRUB AND GROUND COVER AREAS. DO NOT COVER WITH MULCH.



POP UP ROTOR IN TURF



POPUP-SPRAY NEXT TO CURB



POPUP-SPRAY

NOTES:

1. USE TEFLON TAPE TAPE ON ALL THREADED JOINTS OR APPROVED EQUAL BY CITY ENGINEER.
2. ALL RISERS AND NIPPLES SHALL BE SCHEDULE 80 PVC.
3. ALL FITTINGS SHALL BE SCHEDULE 40 PVC.
4. ALL LATERALS SHALL BE SCHEDULE 40 PVC OR AS NOTED ON THE LANDSCAPE/IRRIGATION PLANS.
5. WHERE IRRIGATION HEADS ARE INSTALLED WITHIN EMBANKMENTS, A DRAIN VALVE OR CHECK VALVE IS REQUIRED TO PREVENT EROSION. CHECK VALVES AND DRAIN VALVES SHALL BE INSTALLED AT LOCATIONS AS PRESCRIBED BY THE SPECIFIC FIELD CONDITIONS AND SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO USE AND PLACEMENT.
6. ALL POP-UP HEADS SHALL BE 1-INCH FROM CONCRETE AND ASPHALT AREAS. ALL LARGE RADIUS IRRIGATION HEADS (PART CIRCLE) SHALL BE 4-INCHES FROM CONCRETE AND ASPHALT AREAS. HEIGHT OF POP-UP HEADS SHALL BE AS FOLLOWS:
4-INCHES FOR LAWN AREAS
1 FOOT FOR SHRUBS
1 FOOT FOR GROUND COVERS
7. WHERE PART CIRCLE IRRIGATION HEADS ADJACENT TO A BUILDING WALL, LOCATE IRRIGATION HEAD 1 FT. FROM FACE OF BUILDING WALL TO BACK OF IRRIGATION HEAD.
8. SWING JOINTS SHALL BE ALLOWED ON ALL IRRIGATION HEADS EVEN WHERE NOT REQUIRED.
9. ALL IRRIGATION INSTALLATION SHALL BE IN ACCORDANCE WITH CITY STANDARDS, THE LATEST EDITION OF THE UNIFORM PLUMBING CODE, MANUFACTURER'S RECOMMENDATION AND AS DIRECTED BY THE CITY ENGINEER.
10. ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS.
11. SEE APPROVED LANDSCAPE/IRRIGATION PLANS AND LEGENDS FOR SPECIFIC MODEL NUMBERS, SIZE, QUANTITIES, MANUFACTURER'S, AND PERFORMANCE REQUIREMENTS.
12. ANY AND ALL CHANGES FROM THIS STANDARD SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO ANY TYPE OF CONSTRUCTION.

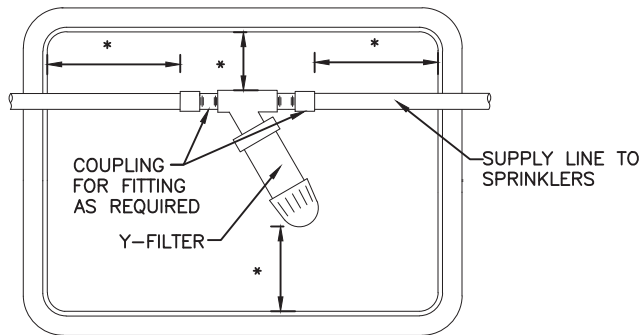


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VARIOUS IRRIGATION HEADS

CITY OF REEDLEY

L-7



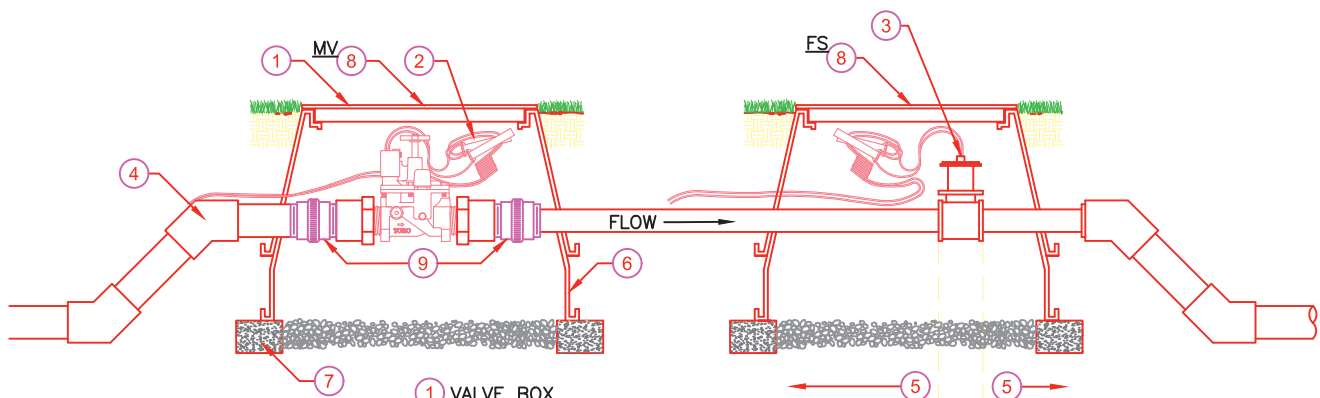
* = 2" Min. CLEARANCE

PLAN VIEW

FILTER

GENERAL NOTES:

1. PLACE 3" MIN. DEPTH OF 3/4" WASHED GRAVEL.
2. PLACE FOUR (4) BRICKS AT EACH CORNER, TYP.
3. VALVE BOXES WITH COVER AND ENGRAVED.



- 1 VALVE BOX
- 2 CONDUCTORS
- 3 FLOW SENSOR
- 4 PVC ELL - 45 DEGREE
- 5 MIN. 10 X PIPE DIA. UPSTREAM
MIN. 5 X PIPE DIA. DOWNSTREAM
- 6 EXTENTIONS AS NECESSARY
- 7 BRICK SUPPORT
- 8 VALVE BOX IDENTIFICATION TAG (ENGRAVED AS NOTED)
- 9 PVC UNION

MASTER VALVE - FLOW SENSOR



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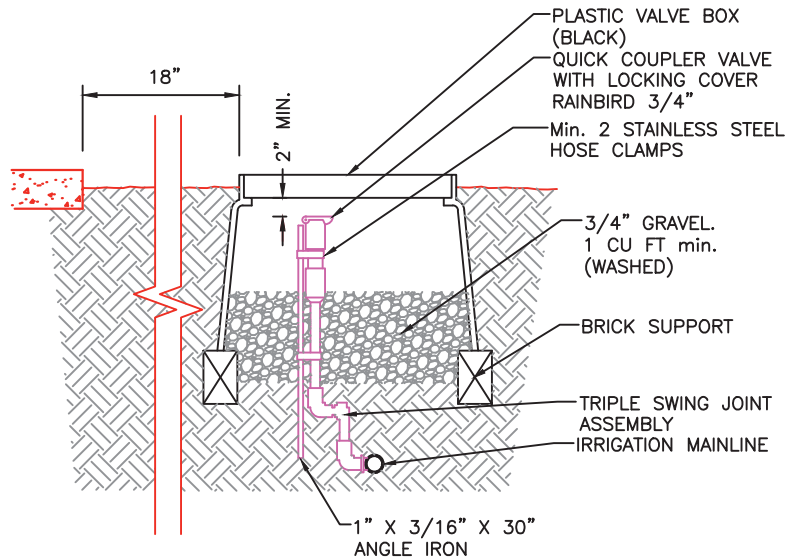
FLOW SENSOR AND FILTER

CITY OF REEDLEY

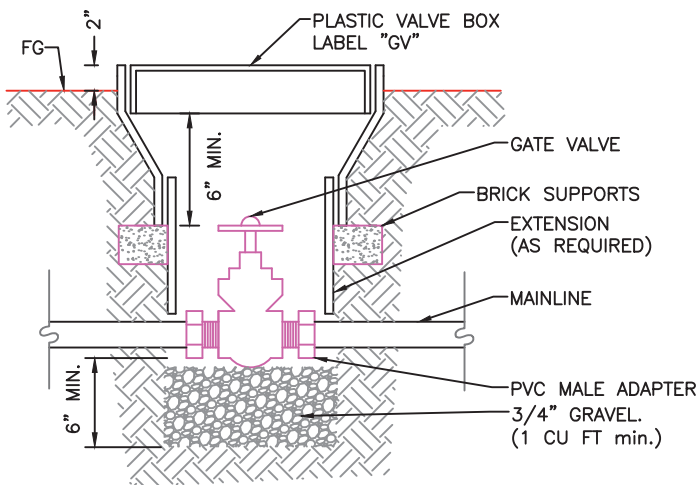
L-8

NOTES:

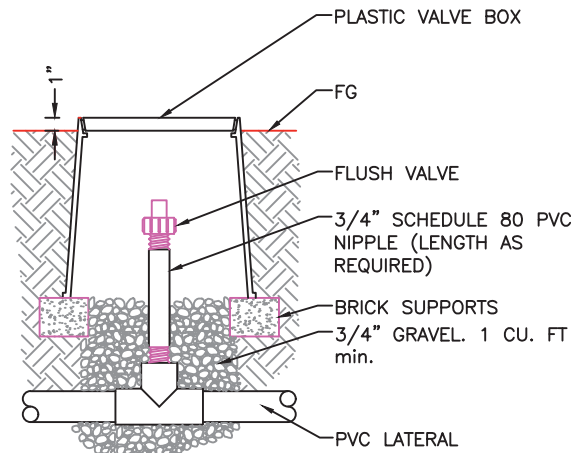
1. USE TEFLON TAPE ON ALL THREADED JOINTS OR AS APPROVED BY CITY ENGINEER.
2. ALL RISERS AND NIPPLES SHALL BE SCHEDULE 80 PVC.
3. ALL FITTINGS SHALL BE SCHEDULE 40 PVC.
4. ALL LATERALS SHALL BE SCHEDULE 40 PVC OR AS NOTED ON THE LANDSCAPE/IRRIGATION PLANS.
5. ALL IRRIGATION INSTALLATION SHALL BE IN ACCORDANCE WITH CITY STANDARDS, THE LATEST EDITION OF THE UNIFORM PLUMBING CODE, MANUFACTURER'S RECOMMENDATION AND AS DIRECTED BY THE CITY ENGINEER.
6. ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS.
7. SEE APPROVED LANDSCAPE/IRRIGATION PLANS AND LEGENDS FOR SPECIFIC MODEL NUMBERS, SIZE, QUANTITIES, MANUFACTURER'S, AND PERFORMANCE REQUIREMENTS.
8. ANY AND ALL CHANGES FROM THIS STANDARD SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO ANY TYPE OF CONSTRUCTION.
9. PLACE FOUR (4) BRICKS AT EACH CORNER FOR RECTANGULAR SHAPED BOXES AND THREE (3) BRICKS FOR CIRCULAR BOXES, TYP..



QUICK COUPLER



GATE VALVE



FLUSH VALVE

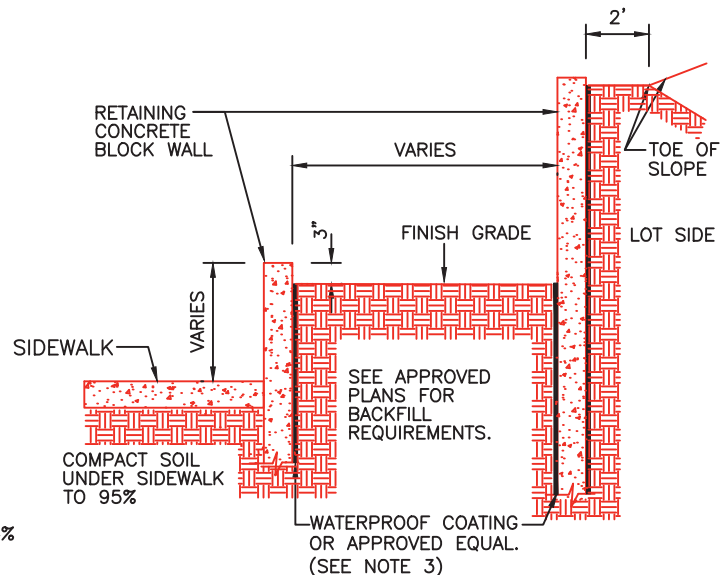
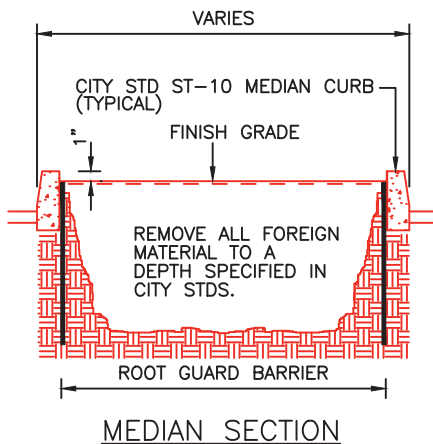
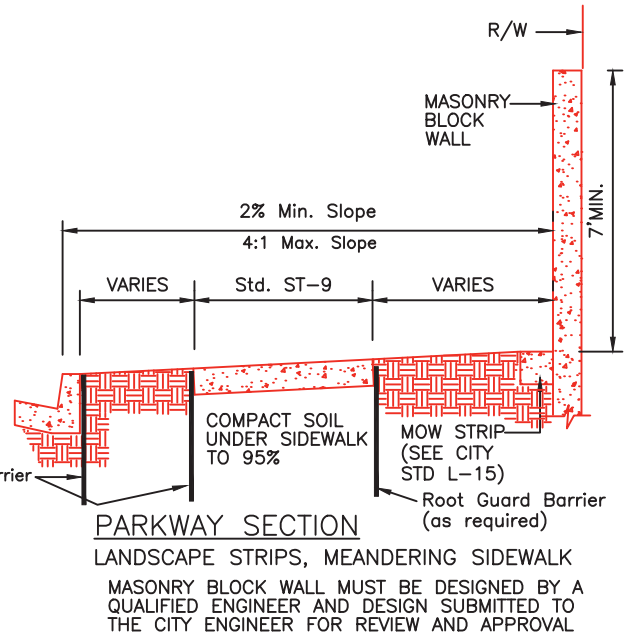
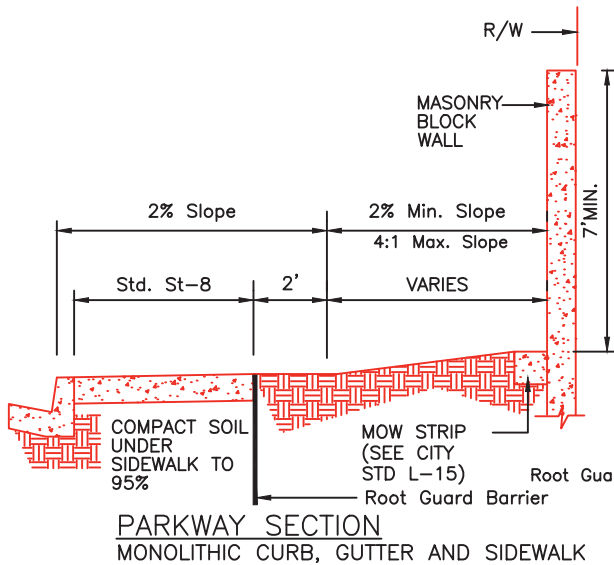


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MAR. 2020
REF. STD. DWG.:

**QUICK COUPLER
AND VALVES**

CITY OF REEDLEY

L-9



NOTES:

1. PROVIDE POSITIVE DRAINAGE (2% MINIMUM TO 4% MAXIMUM) IN ALL LANDFILL AREAS.
2. 9-INCH CONCRETE MOW STRIP IS REQUIRED FOR ALL LAWN AREAS ADJACENT TO PROPOSED OR EXISTING WALL PER STANDARD PLAN L-15.
3. WHERE LOT GRADES ARE HIGHER THAN STREET GRADES, SIDE OF WALL WATER PROOFING IS REQUIRED.
4. IF CURBING AND OR CURB/GUTTER FOR LANDSCAPE CENTER MEDIANS ARE NOT EXISTING, SEE APPROVED CIVIL ENGINEERING DRAWINGS.
5. ALL IRRIGATION INSTALLATION SHALL BE IN ACCORDANCE WITH CITY STANDARDS, THE LATEST EDITION OF THE UNIFORM PLUMBING CODE, MANUFACTURER'S RECOMMENDATION AND AS DIRECTED BY THE CITY ENGINEER.
6. ANY AND ALL CHANGES FROM THIS STANDARD SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO ANY TYPE OF CONSTRUCTION.

WATER PROOFING

(PLANTERS AND RETAINING WALLS)

ALL RETAINING WALLS MUST BE ENGINEERED AND CALCULATIONS SUBMITTED TO CITY ENGINEER FOR REVIEW AND APPROVAL.



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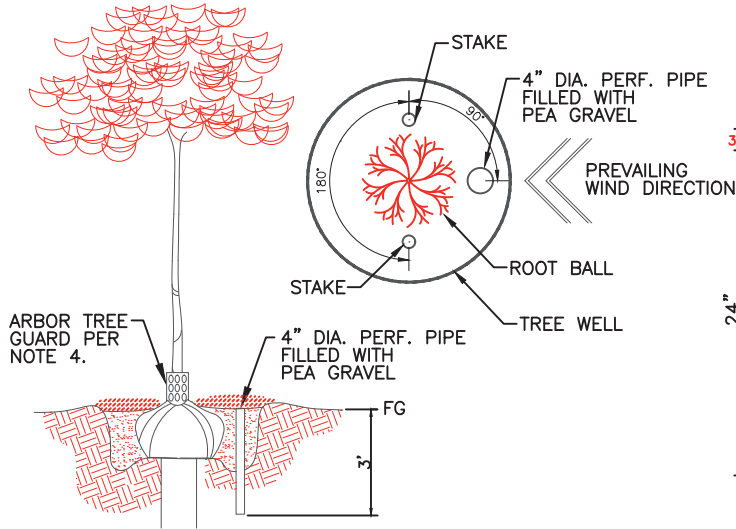
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**PARKWAY AND MEDIAN
SECTION DETAILS**

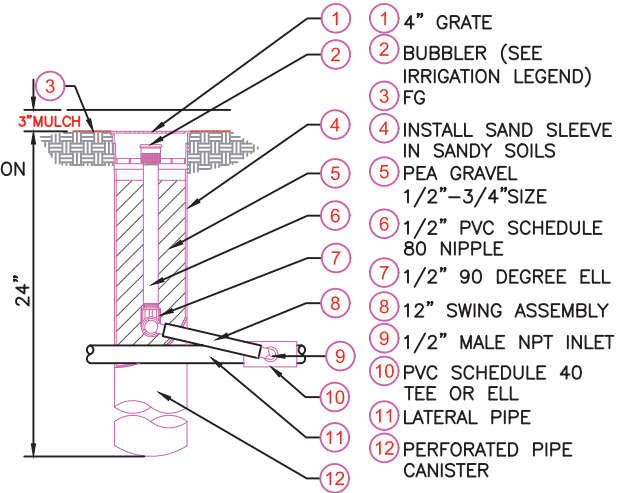
CITY OF REEDLEY

L-10

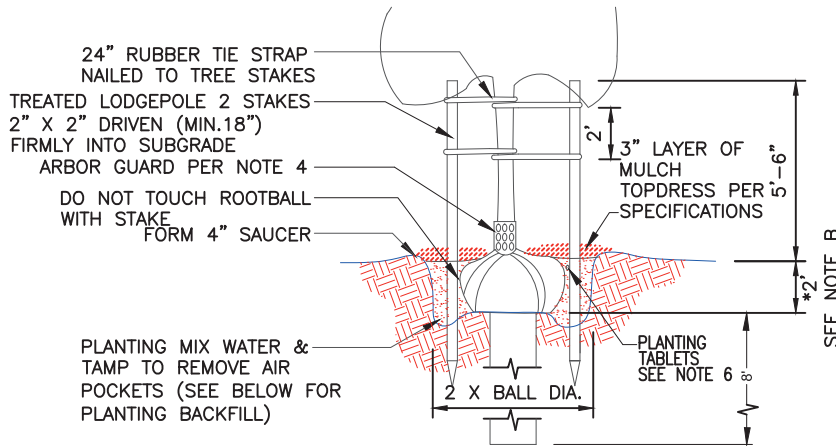


*TREES LOCATED IN LANDSCAPED AREAS REQUIRE ONLY 1 BUBBLER. TREES LOCATED IN TURF AREAS DO NOT REQUIRE BUBBLERS.

TREE IRRIGATION



BUBBLER IN ROOT WATERING SYSTEM

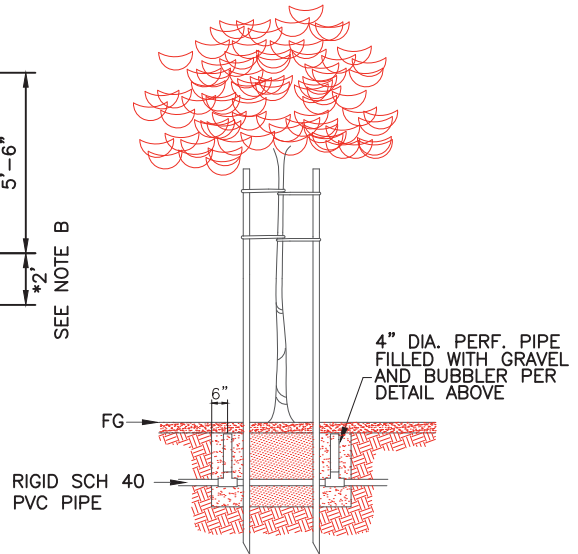


- TOP SUPPORT OF TREES SHOULD BE 6" ABOVE POINT WHERE TREE HEAD IS SELF SUPPORTING AND CLEAR OF BRANCHES.
- PLANTING DEPTH TO BE DICTATED BY POINT OF FIRST ROOT FLAIR (EXCLUDING ADVENTITIOUS ROOTS).
- ROOTBALL TO BE 1" ABOVE FINISHED GRADE BY END OF MAINTENANCE PERIOD.
- PLANTING BACKFILL MIX SHALL CONSIST OF 60 % NATIVE SOIL & 40 % NITROLIZED WOOD SHAVINGS.
- THE CONTRACTOR SHALL DRILL A 12" DIA. x 8' DEEP HOLE AT THE BOTTOM OF EACH PLANTING PIT, PENETRATING THROUGH THE HARDPAN TO LOOSE, FRIABLE SOIL.

TREE PLANTING AND STAKING

NOTES:

- APPLY SOIL AMENDMENT AS PER SOIL TEST.
- ALL TREES SHALL BE STAKED WITH NEW 2-INCH DIAMETER (PRESSURE TREATED) LODGE POLE PINE. REMOVE ORIGINAL TREE STAKES FROM ALL PLANT MATERIAL DELIVERED TO THE PROJECT SITE AND INSTALL NEW TREE STAKES.
- CONSTRUCT MOUND AS REQUIRED TO SECURE PLANTS STABILITY DURING CONSTRUCTION INSTALLATION.
- 6" MIN. ARBOR TREE GUARD OR APPROVED EQUAL IS REQUIRED AROUND ALL TREE TRUNKS PLANTED IN LAWN AREAS.



TREE BUBBLER IN TREE WELL

- 10' LONG X 24" DEEP ROOT BARRIER IS REQUIRED AGAINST ALL HARD SURFACES WHEN THE TREE TRUNK IS 5 FT. OR LESS FROM ANY HARD SURFACE. CENTER ROOT BARRIER LENGTH ONTO TREE. TOP OF ROOT BARRIER SHALL BE 1/2" BELOW FINISHED GRADE.
- PLANTING TABLET SHALL BE PLACED 2" BELOW FINISHED GRADE NEAR ROOT FOUNDATION AS FOLLOWS: 1 TABLET FOR 1 GALLON, 3 TABLETS FOR 5 GALLON, 6 TABLETS FOR 15 GALLON AND 9 TABLETS FOR 24" BOX.

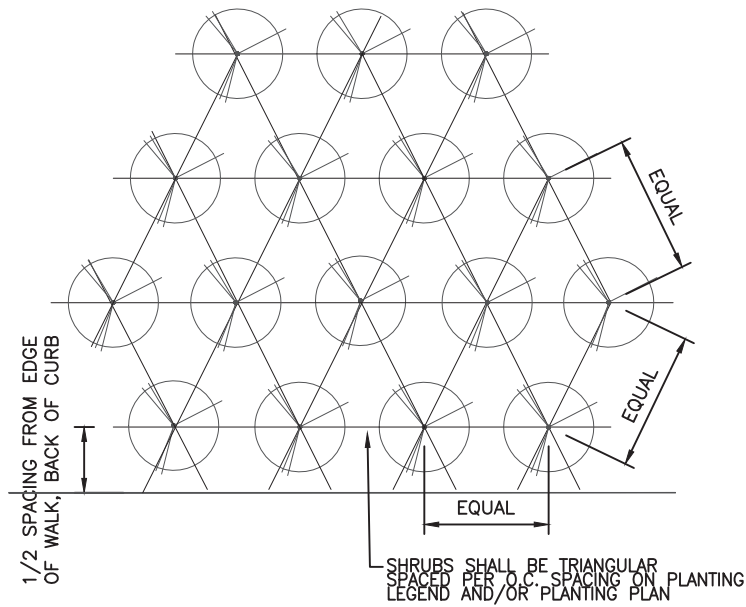


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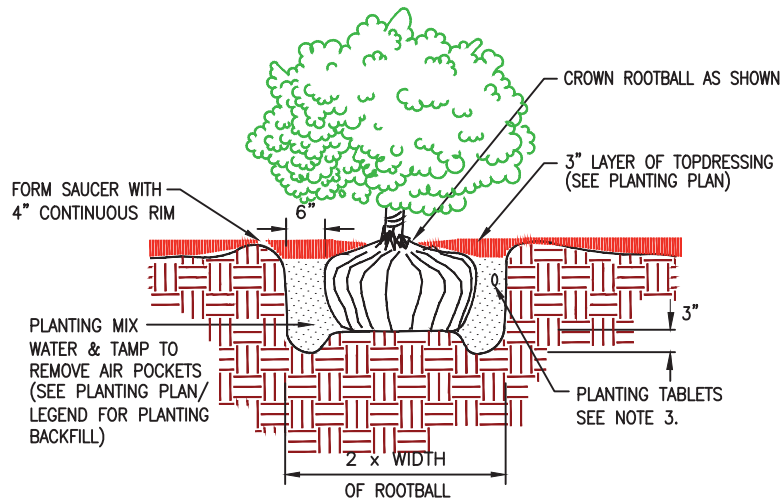
TREE PLANTING AND IRRIGATION DETAILS

CITY OF REEDLEY

L-11



SHRUB SPACING



SHRUB PLANTING

NOTES:

1. APPLY SOIL AMENDMENT AS PER SOIL TEST.
2. CONSTRUCT MOUND AS REQUIRED TO SECURE PLANTS STABILITY DURING CONSTRUCTION INSTALLATION.
3. PLANTING TABLET SHALL BE PLACED 2-INCHES BELOW FINISHED GRADE NEAR ROOT FOUNDATION AS FOLLOWS:
 - 1 - TABLET PER 1 GAL.
 - 3 - TABLETS PER 5 GAL.
 - 6 - TABLETS PER 15 GAL.
 - 9 - TABLETS PER 24-INCH BOX
4. ANY AND ALL DEVIATIONS FROM THIS STANDARD SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.
5. ALL LANDSCAPE PLANTING AND INSTALLATION SHALL BE IN ACCORDANCE WITH APPROVED SPECIFIC LANDSCAPE IRRIGATION CONSTRUCTION PLANS, AND AS DIRECTED BY THE CITY ENGINEER.



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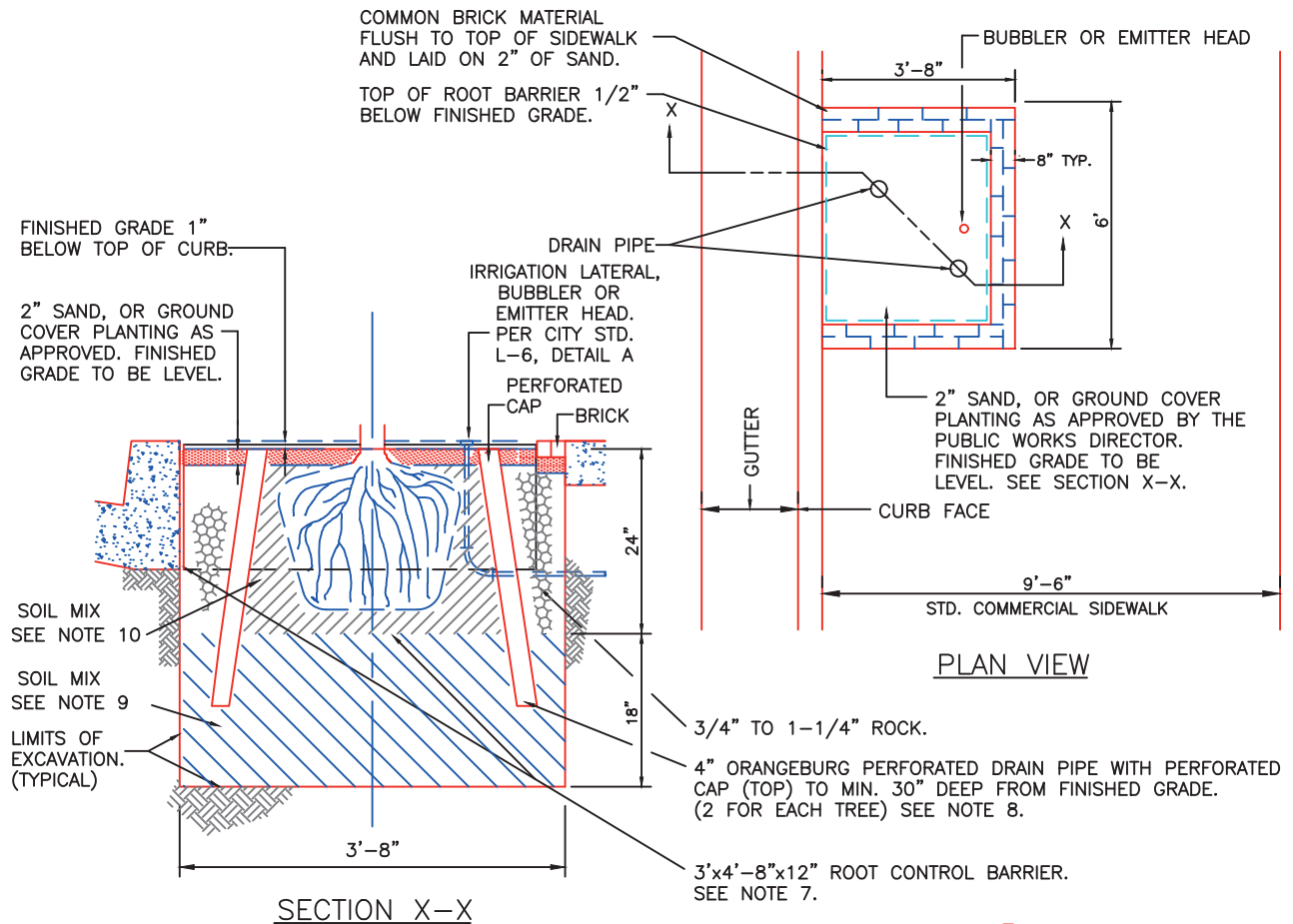
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SHRUB PLANTING AND IRRIGATION DETAILS

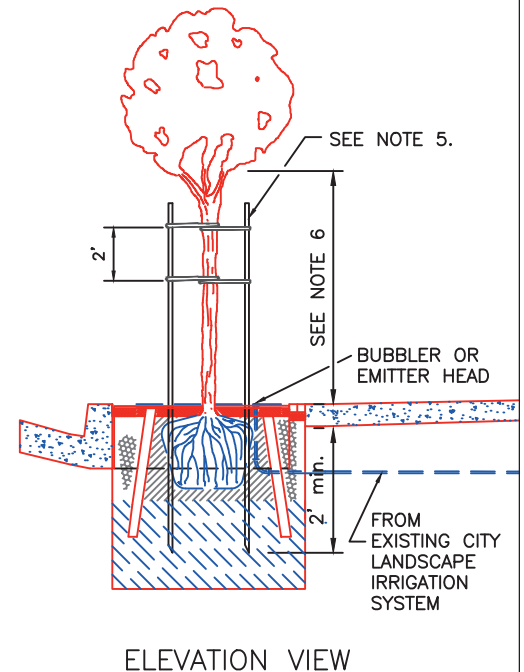
CITY OF REEDLEY

L-12



NOTES:

1. TREE VARIETY AND PLANTER SPACING TO CONFORM TO THE LIST OF APPROVED STREET TREES AND THE REQUIREMENTS OF THE CITY ENGINEER. ALL TREES PLANTED MUST HAVE STRONG CENTRAL LEADER.
2. INSTALLATION SUBJECT TO ENCROACHMENT PERMIT ISSUED BY THE PUBLIC WORKS DEPT.
3. IRRIGATION SYSTEM WITH DRIP EMITTER OR BUBBLER TO BE EXTENDED TO EACH TREE FROM CITY WATER SUPPLY.
4. TREE MAINTENANCE INCLUDING WATERING, FERTILIZING AND LEAF PICKUP TO BE THE RESPONSIBILITY OF THE DOWNTOWN STREETSCAPE COMMITTEE AND UNDER THE SUPERVISION OF THE PUBLIC WORKS DIRECTOR.
5. TREES SHALL BE SECURELY TIED TO STAKES 2"x2"x8' IN SIZE. REDWOOD OR TREATED FOUNDATION GRADE WOOD PLACED ON PRE-VAILING WINDWARD SIDE OF TREE WITH RUBBER TIE STRAPS.
6. MINIMUM VERTICAL CLEARANCE TO LOWEST:
 - a. LIMB OVERHANGING PARKING LANE = 14 FT.
 - b. LIMB OVERHANGING SIDEWALK = 7 FT.
7. ROOT CONTROL BARRIER SHALL BE #LB 12-2 AS MANUFACTURED BY DEEP ROOT, 345 LORTON AVE #103, BURLINGAME, CA, OR AS APPROVED BY THE CITY ENGINEER. VERTICAL ROOT DEFLECTING RIBS ON PANEL MUST FACE INWARD, TOWARD ROOT BALL. TOP EDGE OF BARRIER TO BE 1/2" BELOW GRADE.
8. FILL IN AROUND PERFORATED PIPE BELOW ROOT CONTROL BARRIER WITH 3/4" TO 1-1/4" ROCK TO 4" AROUND OUTSIDE PIPE.
9. SOIL MIX TO CONSIST OF SUITABLE NATIVE SOIL.
10. PLANTING BACKFILL MIX SHALL CONSIST OF 60% NATIVE SOIL & 40% NITROLIZED WOOD SHAVINGS.



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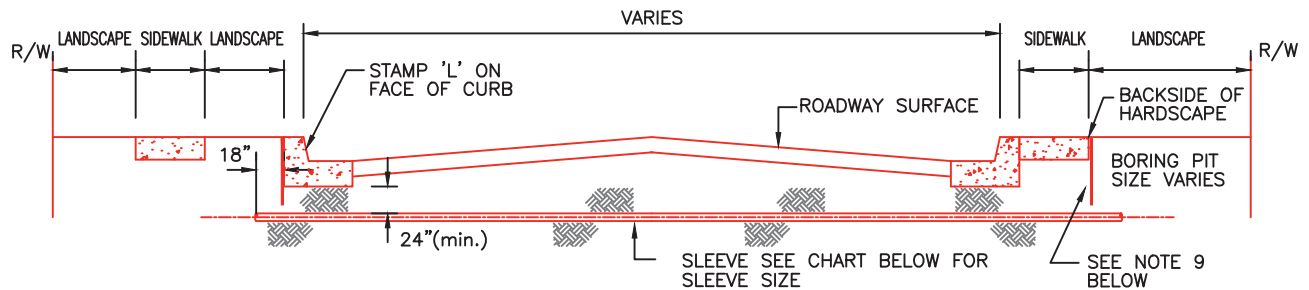
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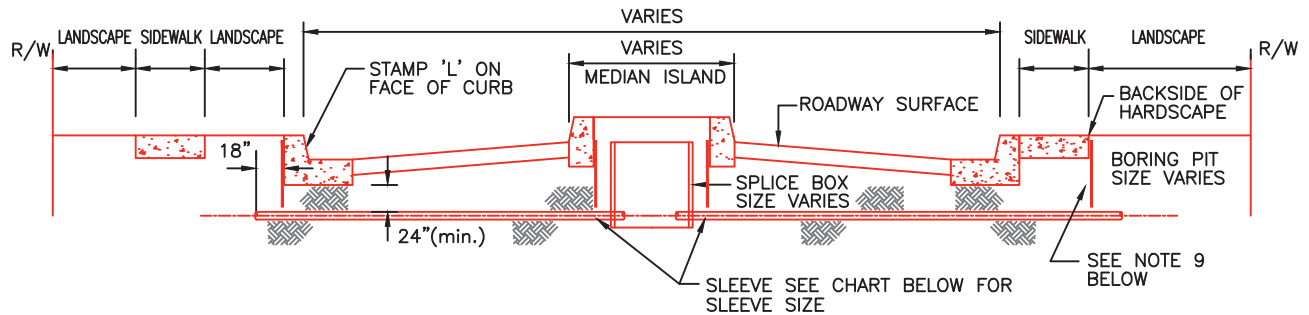
DOWNTOWN STREETSCAPE TREE WELL STANDARD

CITY OF REEDLEY

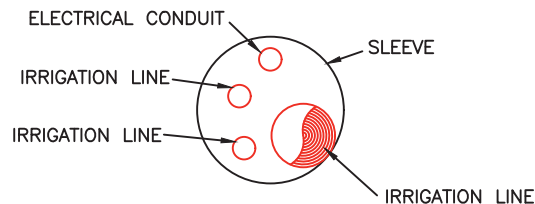
L-13



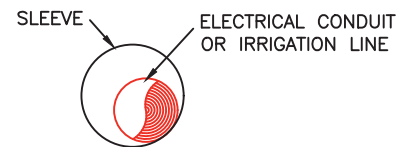
IRRIGATION STREET CROSSOVER



IRRIGATION STREET CROSSOVER WITH LANDSCAPE MEDIAN



MORE THAN ONE PIPE PER SLEEVE



ONE PIPE PER SLEEVE

IRRIGATION SLEEVE CHART
INCREASE SLEEVE SIZE AS REQUIRED PER THIS CHART FOR MORE THAN ONE PIPE PER SLEEVE

PVC PIPE SIZE	SLEEVE SIZE		
	UNDER 18 Ft.	OVER 18 Ft. UNDER 28 Ft.	OVER 28 Ft.
1/2"	1"	1-1/4"	1-1/2"
3/4"	1-1/4"	1-1/2"	2"
1"	1-1/2"	2"	2"
1"-1/4"	2"	2-1/2"	2-1/2"
1"-1/2"	2-1/2"	2-1/2"	3"
2"	3"	3"	3"
2-1/2"	3"	3"	4"
3"	4"	5"	5"
3-1/2"	5"	5"	6"
4"	5"	6"	6"
5"	6"	8"	8"
6"	8"	8"	8"

NOTES:

1. ALL PIPING AND FITTINGS SHALL BE SCHEDULE 40 PVC UNLESS APPROVED EQUAL BY THE CITY ENGINEER.
2. WHERE CONDUIT (SLEEVE ONLY) IS INSTALLED, ONE PULL WIRE OR ROPE SHALL BE INSTALLED. THE LENGTH OF WIRE OR ROPE SHALL EXTEND 6 FT. PASS EACH END OF THE CONDUIT. EACH CONDUIT (SLEEVE) SHALL BE CAPPED AT EACH END.
3. ALL MATERIAL USED SHALL BE NEW AND FREE FROM IMPERFECTIONS.
4. SEE APPROVED LANDSCAPE/IRRIGATION PLANS AND LEGENDS FOR SPECIFIC MODEL NUMBERS, SIZE, MANUFACTURER'S, AND PERFORMANCE REQUIREMENTS.
5. ALL TRANSITIONS FROM GALVANIZED PIPE TO PVC SHALL BE CONSTRUCTED WITH SCHEDULE 40 FEMALE ADAPTER OR APPROVED EQUAL BY THE CITY ENGINEER.
6. ALL IRRIGATION INSTALLATION SHALL BE IN ACCORDANCE WITH CITY STANDARDS, THE LATEST EDITION OF THE UNIFORM PLUMBING CODE, MANUFACTURER'S RECOMMENDATIONS, AND AS DIRECTED BY THE CITY ENGINEER.
7. VERIFY ALL MEASUREMENTS AND SPECIFIC SITE CONDITIONS IN THE FIELD.
8. ROUTE PIPE(S) AS REQUIRED AS PER APPROVED LANDSCAPE/IRRIGATION PLANS.
9. INSTALL 2"x4"x24" REDWOOD STAKES AT EACH END OF SLEEVE AT HARDSCAPE. TOP OF REDWOOD STAKE 1-INCH BELOW TOP OF HARDSCAPE.
10. THE METHOD USED FOR BORING SHALL BE REVIEWED AND APPROVED BY THE CITY ENGINEER PRIOR TO START OF OPERATION.
11. ANY AND ALL CHANGES SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.

"CONTRACTOR SHALL CONTACT UTILITY COMPANIES PRIOR TO BORING"

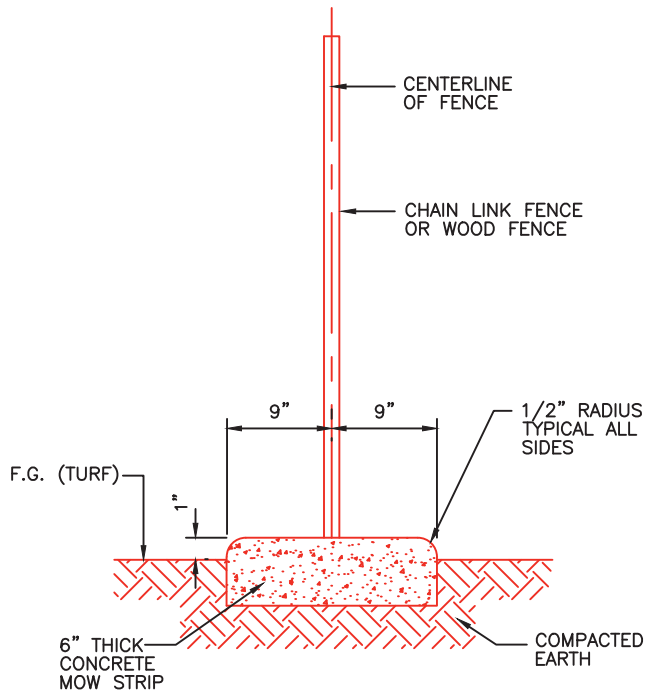


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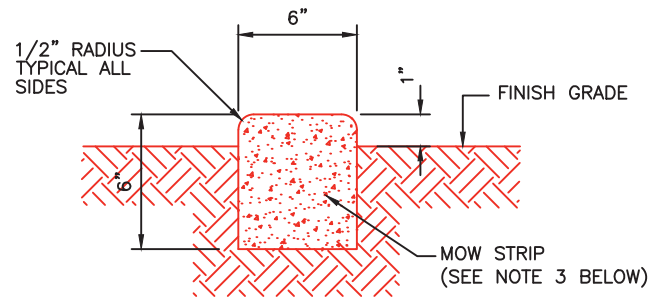
IRRIGATION SLEEVE
DETAILS

CITY OF REEDLEY

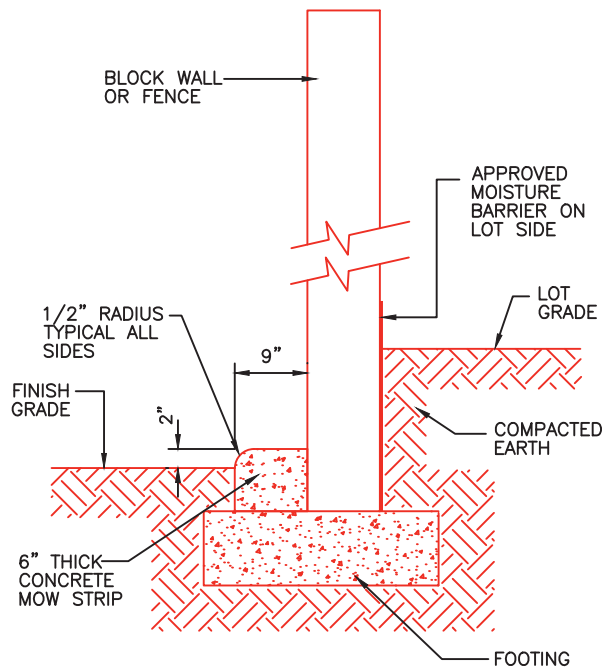
L-14



MOW STRIP AT FENCE



CONCRETE MOW STRIP



MOW STRIP AT WALL AND FENCE

NOTES:

1. CONSTRUCT A DEEP SCORE EXPANSION JOINT AT EVERY FENCE POST AND EVERY 15 FT. ON ALL CONCRETE SURFACES.
2. ALL AREAS TO RECEIVE CONCRETE SHALL BE COMPACTED TO 90% RELATIVE DENSITY FOR A DEPTH OF 0.5 FT. AS APPROVED BY THE CITY ENGINEER.
3. TOP OF MOW STRIP SHALL BE 1-INCH ABOVE FINISHED GRADE WHEN ADJACENT TO TURF AND 2-INCHES ABOVE FINISHED GRADE WHEN ADJACENT TO PLANTER.
4. WHERE THE GRADE ON THE LOT SIDE OF THE WALL IS HIGHER THAN THE GRADE ON THE STREET SIDE OF THE WALL, WATER PROOFING IS REQUIRED. SEE STANDARD PLAN L-10 FOR WATER PROOFING REQUIREMENTS.
5. ANY AND ALL CHANGES FROM THIS STANDARD DETAIL SHEET SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.
6. ALL CONCRETE SHALL BE CLASS 'B' IN ACCORDANCE WITH SECTION 16 OF THE CITY STANDARD SPECIFICATIONS AND AS APPROVED BY THE CITY ENGINEER.

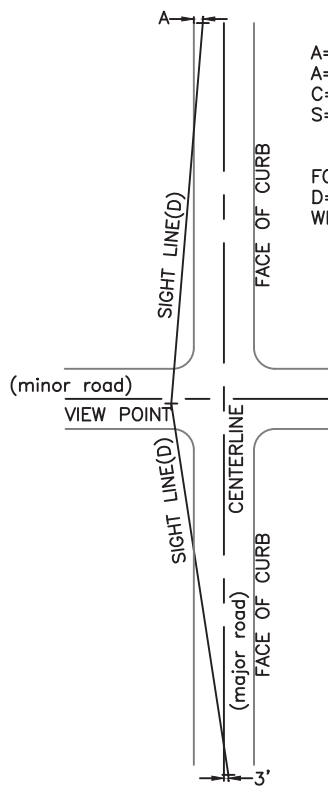


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**CONCRETE MOW STRIP
DETAILS**

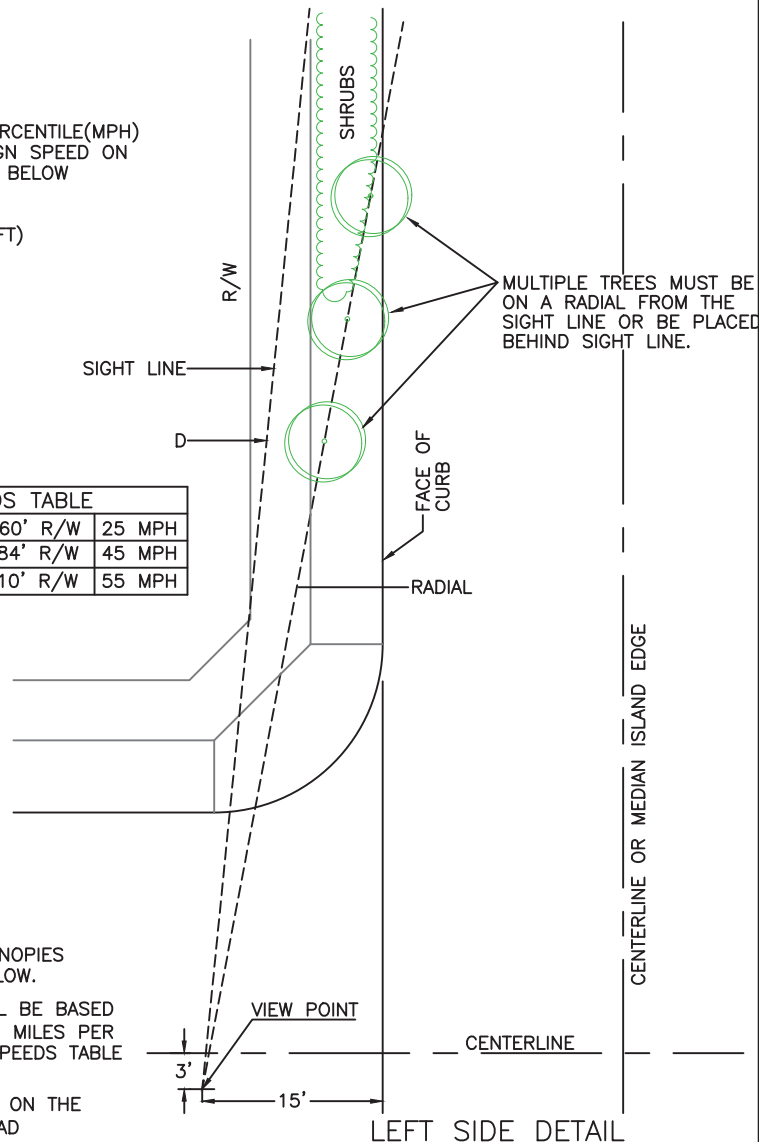
CITY OF REEDLEY

L-15



A=12' WITH PARKING
A= 6' WITHOUT PARKING
C=10- FEET/MPH
S=CRITICAL SPEED-85th PERCENTILE(MPH)
OR IF NOT KNOWN, DESIGN SPEED ON
THRU STREET PER TABLE BELOW
FORMULA:
 $D = S \times C$
WHERE, D=SIGHT DISTANCE(FT)

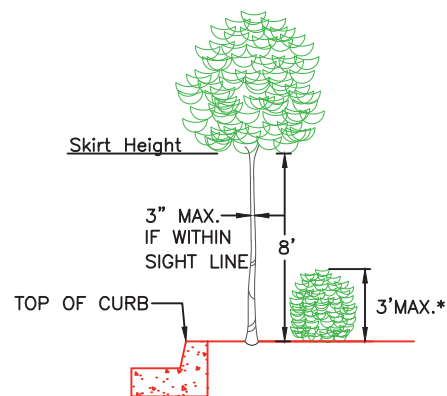
DESIGN SPEEDS TABLE		
LOCAL STREET	57-60' R/W	25 MPH
MAJOR COLLECTOR	84' R/W	45 MPH
MAJOR ARTERIAL	110' R/W	55 MPH



SIGHT DISTANCE DIAGRAM

NOTES:

1. TREES AND SHRUBS WITHIN SIGHT LINE AND TREE CANOPIES OVER SIDEWALKS SHALL CONFORM TO THE DETAIL BELOW.
2. SIGHT DISTANCE AT CONTROLLED INTERSECTIONS SHALL BE BASED ON A SIGHT DISTANCE EQUAL TO DESIGN SPEED(S) IN MILES PER HOUR MULTIPLIED BY A FACTOR OF 10. SEE DESIGN SPEEDS TABLE FOR VARIOUS STREET CLASSIFICATIONS.
3. CORNER SIGHT DISTANCE IS MEASURED FROM A POINT ON THE MINOR ROAD 15' FROM THE EDGE OF THE MAJOR ROAD PAVEMENT, AND 3' RIGHT OF THE LEFT EDGE OF THE LANE UNDER CONSIDERATION. SAID POINT IS VIEWED FROM A HEIGHT OF 3.5' ON THE MINOR ROAD TO A HEIGHT OF 4.25' ON THE MAJOR ROAD.
4. THE LOCATION OF THE OBJECT TO THE LEFT IS 12' FROM THE NEAREST EDGE OF THE MAJOR ROAD (6' WITH PARKING PROHIBITED). PARKING SHALL BE ASSUMED TO BE PROHIBITED ON MAJOR ARTERIAL STREETS OR AS DIRECTED BY THE CITY ENGINEER.
5. THE LOCATION OF THE OBJECT TO THE RIGHT IS TO BE MEASURED AT 1/2 THE MAJOR ROAD WIDTH PLUS 3' FROM THE NEAREST EDGE OF THE MAJOR STREET.
6. LANDSCAPING OVER 3' IN HEIGHT ABOVE TOP OF CURB SHALL NOT BE PLACED WITHIN THE LINE OF SIGHT. ALL LANDSCAPING MUST BE MAINTAINED AT A HEIGHT OF 3' OR LESS WITH THE EXCEPTION OF TREES.
7. TREES ARE PERMITTED IN THE LINE OF SIGHT FOR CONTROLLED INTERSECTIONS PROVIDED THAT THE SKIRT HEIGHT (BOTTOM OF FOLIAGE) IS MAINTAINED 8' ABOVE THE ADJACENT TOP OF CURB. IN THE EVENT MORE THAN 1 TREE IS PLACED IN THE SIGHT LINE AREA THEY MUST BE PLACED ON A RADIAL FROM THE VIEW POINT.
8. ANY AND ALL CHANGES FROM THIS STANDARD SHALL BE DESIGNED BY A TRAFFIC ENGINEER AND SUBMITTED TO THE CITY ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ANY TYPE OF CONSTRUCTION.



TREE HEIGHT DETAIL

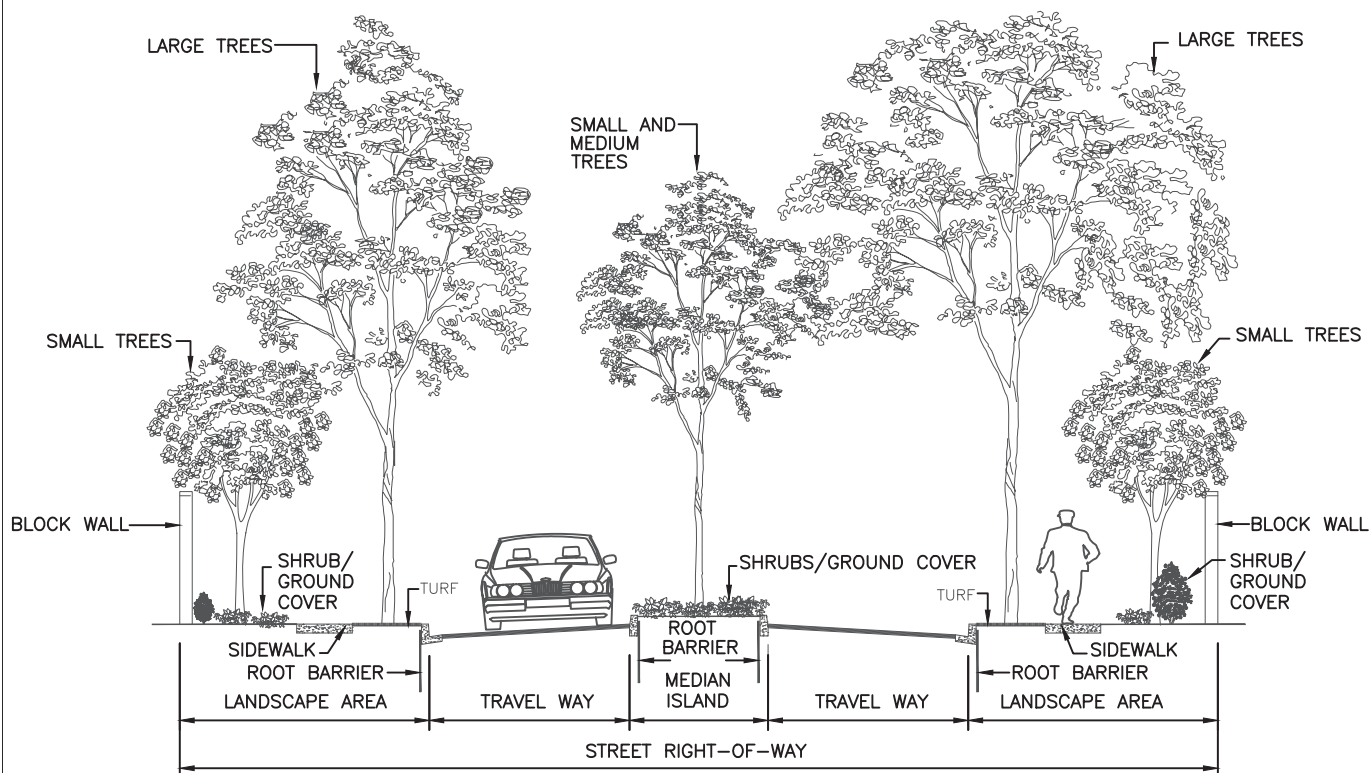


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TYPICAL SIGHT DISTANCE REQUIREMENTS FOR CONTROLLED INTERSECTION WITH LANDSCAPING

CITY OF REEDLEY

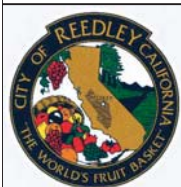
L-16



LANDSCAPING SHALL BE PROVIDED ON MAJOR ARTERIAL, ARTERIALS AND COLLECTOR STREETS ON WHICH IS PLACED A REQUIREMENT FOR CONSTRUCTION OF MASONRY BLOCK WALLS, MEDIAN ISLANDS, OR OTHER SUCH AREAS AS REQUIRED BY THE CITY OF REEDLEY.

MAJOR ARTERIAL STREETS WILL REQUIRE A LANDSCAPE AREA WITH A MINIMUM WIDTH OF 21 FEET INCLUDING THE MASONRY BLOCK WALL BEHIND THE CITY STANDARD SIDEWALK.

ARTERIALS & COLLECTOR STREETS WILL REQUIRE A LANDSCAPED AREA WITH A MINIMUM WIDTH OF 17 FEET INCLUDING THE WIDTH OF THE MASONRY BLOCK WALL BEHIND THE CITY STANDARD SIDEWALK.



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LANDSCAPING ON MAJOR ARTERIALS AND MAJOR COLLECTOR STREETS

CITY OF REEDLEY

L-17

LARGE TREES
Greater than 8-foot Planter Area

<i>Scientific name</i> Common name	<i>Tree well</i>	<i>Parkway</i>	<i>Spacing</i>	<i>Tree size</i>	<i>Street tree</i>	<i>Riparian/ Native</i>	<i>Park</i>
<i>Acer rubrum</i> 'Red Sunset' Red Maple 'Red Sunset'	4x4	6' - 8'	35' - 40'	large	X		X
<i>Ginkgo biloba</i> 'Autumn Gold' Ginkgo 'Autumn Gold'	4.5' x 4.5'	6' - 8'	25' - 30'	large	X		X
<i>Ginkgo biloba</i> 'Magyar' Ginkgo 'Magyar'	4.5' x 4.5'	6' - 8'	25' - 30'	large	X		X
<i>Ginkgo biloba</i> 'Saratoga' Ginkgo 'Saratoga'	4.5' x 4.5'	6' - 8'	25' - 30'	large	X		X
<i>Platanus acerfolia</i> 'Bloodgood' London Plant Tree	4'x4'	4' - 6'	35' - 40'	large	X		X
<i>Platanus racemosa</i> California Sycamore	5' x 5'	6' - 8'	35' - 40'	large		X	
<i>Quercus agrifolia</i> Coastal Live Oak	5' x 5'	6' - 8'	35' - 40'	large	X	X	X
<i>Quercus frainetto</i> Forest Green Oak	4' x 4"	5' - 8'	35' - 40'	large	X		X
<i>Quercus lobata</i> Valley Oak	5' x 5'	5' - 8'	35' - 40'	large	X	X	X
<i>Quercus muehlenbergii</i> Chinkapin oak	5' x 5'	6' - 8'	35' - 40'	large	X		X
<i>Quercus phellos</i> Willow oak	5' x 5'	6' - 8'	35' - 40'	large	X		X
<i>Quercus shumardii</i> Shumard Oak	5' x 5'	5' - 8'	35' - 40'	large	X		X
<i>Quercus suber</i> Cork Oak	5' x 5'	5' - 8'	35' - 40'	large	X		X
<i>Quercus virginiana</i> Southern Live Oak	5' x 5'	5' - 8'	35' - 40'	large	X		X
<i>Quercus wislizenii</i> Interior Live Oak	5' x 5'	5' - 8'	35' - 40'	large	X	X	X
<i>Ulmus carpinifolia</i> x <i>U. parvifolia</i> Frontier elm	5' x 5'	5' - 8'	35' - 40'	large	X		X
<i>Ulmus parvifolia</i> Chinese Elm 'Allee'	5' x 5'	5' - 8'	35' - 40'	large	X		X
<i>Zelkova serrata</i> 'Green Vase' Green Vase Zelkova	5' x 5'	5' - 8'	35' - 40'	large	X		X
<i>Zelkova serrata</i> 'Musashino' Musashino Zelkova	5' x 5'	5' - 8'	35' - 40'	large	X		X
<i>Zelkova serrata</i> 'Village Green' Village Green Zelkova	5' x 5'	5' - 8'	35' - 40'	large	X		X



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LARGE STREET TREE

CITY OF REEDLEY

L-18

MEDIUM TREES
5-foot to 8-foot Planter Area

<i>Scientific name</i> Common name	<i>Tree well</i>	<i>Parkway</i>	<i>Spacing</i>	<i>Tree size</i>	<i>Street tree</i>	<i>Riparian/ Native</i>	<i>Park</i>
<i>Acer buergeranum</i> Trident Maple	3' X 3'	3' - 6'	25'-30'	medium	X		X
<i>Koelreuteria paniculata</i> Goldenrain	4.5' x 4.5'	4' - 6'	25' - 30'	medium	X		X
<i>Laurus nobilis 'Saratoga'</i> Laural Saratoga	3' X 3'	3' - 6'	25'-30'	medium	X		X
<i>Magnolia 'Vulcan'</i> Vulcan Magnolia	3' x 3'	3' - 6'	15' - 20'	medium	X		X
<i>Magnolia 'Galaxy'</i> Galaxy Magnolia	3' x 3'	3' - 6'	15' - 20'	medium	X		X
<i>Nyssa sylvatica 'forum'</i> Tupelo'	4'x4'	4' - 6'	25' - 30'	medium	X		X
<i>Pistacia Chinesis</i> Chinese Pistache	4'x4'	4' - 6'	25' - 30'	medium	X		X
<i>Pistacia Chinesis</i> Chinese Pistache 'Keith Davey'	4'x4'	4' - 6'	25' - 30'	medium	X		X
<i>Pyrus kawakamii</i> Evergreen Pear	4'x4'	4' - 6'	25' - 30'	medium	X		X
<i>Zelkova serrata 'Wireless'</i> Wireless zelkova	5' x 5'	5' - 8'	35' - 40'	medium	X		X



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REF. STD. DWG.:

MEDIUM STREET TREE

CITY OF REEDLEY

L-19

SMALL TREES
Less than 5-foot Planter Area

<i>Scientific name</i> Common name	<i>Tree well</i>	<i>Parkway</i>	<i>Spacing</i>	<i>Tree size</i>	<i>Street tree</i>	<i>Riparian/ Native</i>	<i>Park</i>
<i>Cercis canadensis</i> Eastern Redbud	3' x 3'	2' - 4'	20' - 30'	small	X		X
<i>Cercis mexicana</i> Mexicana Redbud	3' x 3'	2' - 4'	20' - 30'	small	X		X
<i>Cercis canadensis</i> 'Oklahoma' Eastern Redbud 'Oklahoma'	3' x 3'	2' - 4'	20' - 30'	small	X		X
<i>Lagerstroemia indica</i> Crape myrtle	3' X 3'	3' - 6'	25'-30'	small	X		X
<i>Magnolia 'Rustica Rubran'</i> Rustica Rubran Magnolia	3' x 3'	3' - 6'	15' - 20'	small	X		X



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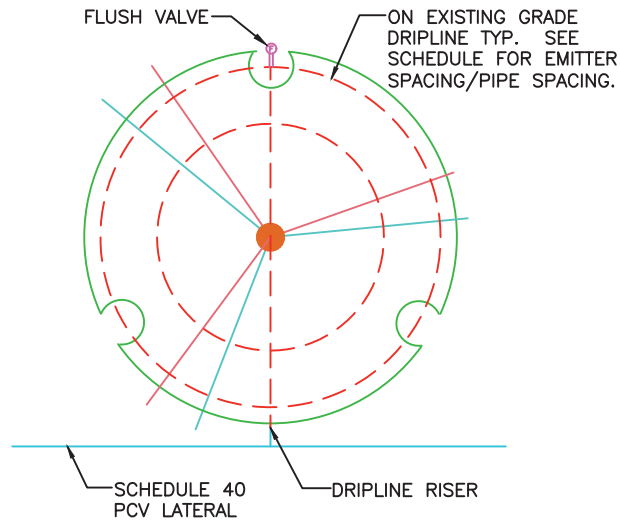
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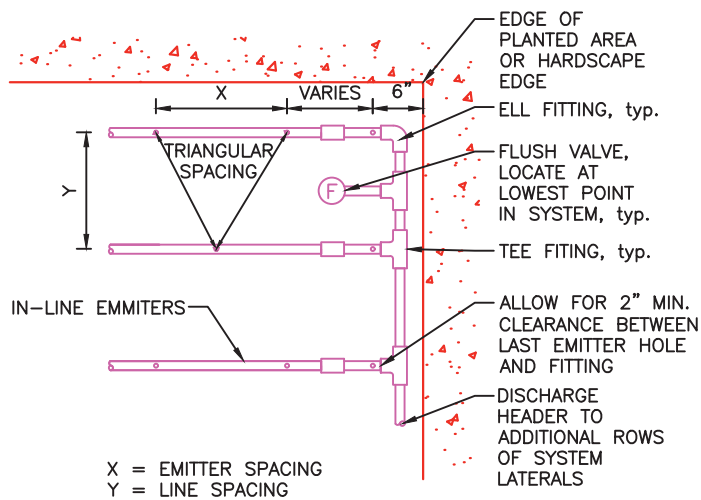
SMALL STREET TREE

CITY OF REEDLEY

L-20



AT GRADE DRIP LINE — EX TREE



DRIP LINE LAYOUT

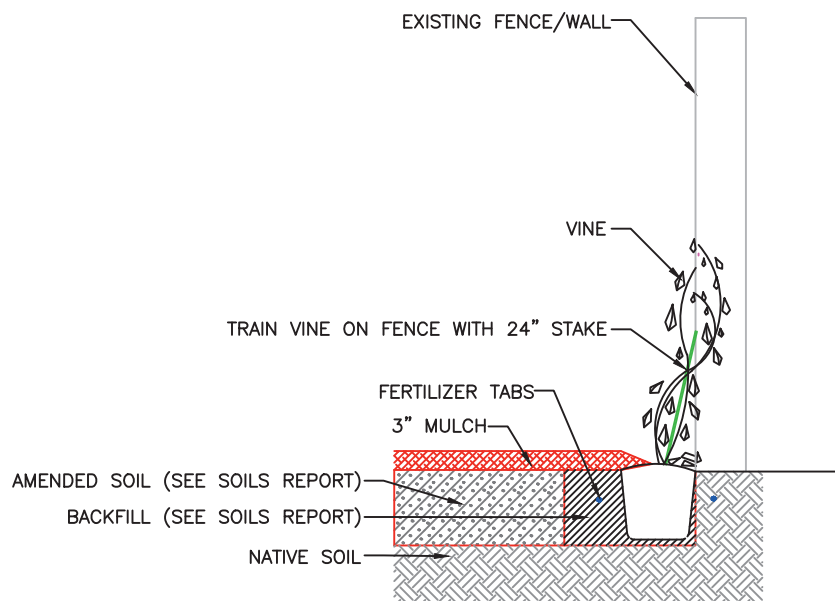


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DRIP LINES

CITY OF REEDLEY

L-21



VINE PLANTING ON FENCE – AMENDED SOIL



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VINE PLANTING

CITY OF REEDLEY

L-22